

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Rita Arguello

GENERAL INFORMATION:

Name:	International Crankshaft Corporation
Address:	101 Carley Court Georgetown, KY 40324
Date application received:	February 21, 2007
SIC/Source description:	3462, stainless steel pipes
Source ID #:	21-209-00039
Source A.I. #:	3910
Activity #:	APE20070001
Permit number:	F-04-026 R2

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
X Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

## **EMISSIONS SUMMARY:**

### **Emissions Potential with Addition of Line 3 and expansion of Die Making process (01-03) Permit (F-04-026 R2)**

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM <sub>10</sub>	<90	363
VOC	< 90	0.230
Single HAPs		
Chromium	< 9	0.110
Lead	< 9	0.030
Maganese	< 9	0.150
Nickel	< 9	0.020
Phosphorus	< 9	0.003
Source wide HAPs	< 22.5	0.313

### **Emissions Potential with Addition of Tumbler Shot Blaster and Bar Coding (F-04-026 R1)**

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM <sub>10</sub>	<90	168.777
VOC	< 90	0.022
Single HAPs	< 9	
Ethylbenzene	< 9	0.0613
Toluene	< 9	0.006
Benzene	< 9	0.001
Xylene	< 9	0.1838
Lead	< 9	0.115
Mercury	< 9	0.699
Nickel	< 9	0.115
Phosphorous	< 9	0.138
Source wide HAPs	< 22.5	1.319

**Emissions Potential of Existing Equipment (F-05-036)**

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM <sub>10</sub>	<90	165.607
VOC	< 90	.002
Single HAPs	<9	0
Source wide HAPs	< 22.5	0

**SOURCE DESCRIPTION:**

International Crankshaft Inc., located in Georgetown, Kentucky, manufactures crankshafts for automobiles. International Crankshaft Inc. is associated with the processes of die forging and shot blast. The pollutant of concern is particulate matter, PM. HAPs are pollutants from insignificant activities. Particulate matter from the main press operations is controlled by wet scrubbers. The particulate matter from the shot blasters is controlled by baghouses. Potential emissions of PM are greater than major source thresholds; International Crankshaft Inc. has requested Federally Enforceable Limits on the potential to emit.

**MINOR PERMIT REVISION 2: ADDITION OF NEW FORGING LINE AND EXPANSION OF EXISTING DIE MAKING LINE.**

An additional line and expansion of the existing line has been requested as follows:

The new line #3 will include a Main Press and a Shot Blast Machine, generating particular matter and fugitive emissions from insignificant activities.

The existing point 01-03 will increase production rates in Rougher EDMs and Die Blocks.

To be installed in March of 2007.

**MINOR PERMIT REVISION 1: ADDITION OF INSIGNIFICANT ACTIVITIES.**

The addition of two insignificant activities, Bar Coding System and Tumbler Shot Blaster, and the deletion of two existing shot blasters in the Mini Inspections Area, to be removed in September of 2006.

**EMISSIONS AND OPERATING CAPS DESCRIPTIONS:**

International Crankshaft Incorporated has requested voluntary permit limits of less than 9.0 tons per year of individual hazardous air pollutants (HAP), less than 22.5 tons per year of combined HAPs, and less than 90 tons per year of PM.

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